

A MEMO TO THE SORA COMMUNITY

NOVEMBER 2023

This document accompanies the invoice sent to SORA for the services provided by SORAMITSU.

November 2023 was an incredible month of accomplishments. The SORA Integrated Plan continues to be the roadmap for the SORA Network development pipeline, and the progress rate has steadily advanced.

This memo will provide a perspective on the activities for each track, a description of the development activities specific to this month, and the total amount of hours presented in invoice number 205049 served by SORAMITSU Helvetia to the SORA Community.

1 SORA (Substrate) – 5,671 hrs

Work this month is spread across the [Substrate bridge](#), [Orderbook implementation](#), the [SORA Kusama parachain](#), [Documentation](#), and [Kensetsu](#).

With the successful substrate bridge implementation and future-proofing, the bridge infrastructure is actively being upgraded for compatibility with another non-parachain Substrate-based network supporting a Sovereign State.

The Order book is undergoing stress and performance tests, and community feedback from the testnet is being implemented. The final features for the Orderbook release and the optimisation of a UI from the client application teams are in progress.

The Kensetsu feature has been actively worked on, with the architectural design and system analyses steadily progressing. Ongoing research and test case analysis are carried out to ensure a solid logic. At the same time, collaboration with the product design and front-end teams is ongoing to ensure an intuitive user experience.

Work on the SORA Kusama parachain includes the implementation of XOR as the native currency and enabling smooth transfers across the SORA and the SORA Kusama networks, adjusting asset precision and implementing public governance bodies for the network.

Documentation on the Substrate Bridge infrastructure outline has been published; SORA Tokenomics documentation has been updated, and Kensetsu documentation is in progress.

Finally, ongoing project management activities include SORA Governance and Technical committee support, quality assurance ops and development support to external teams building on the SORA network.

On the mobile side, two releases were worked on this month:

- **3.7.0 Released.** Introduces night mode, support for left-to-right reading languages, Connect with Google improvements, and performance and QoL improvements.
- **3.8.0 In Progress.** Will introduce Demeter Farming management and performance and QoL improvements.

As well as project management activities, systems analysis, UI/UX improvements and quality assurance.

1.1 SORA Backend

- Order book:
 - Developing testing tools for the QA team to perform stress and performance tests.
 - Writing and performing benchmarks to analyse the implementation's performance and the parameters' impact on the performance.
 - Updating implementation based on QA and community feedback.
 - Supporting the client application team.
- Kensetsu:
 - Market research on overcollateralised lending platforms.
 - System analysis and architecture design.
 - Preparing test cases and investigating corner cases.
 - Implementing the foundation of the logic.
 - Synchronising with the Product Design and front-end teams to ensure the implementation is user-oriented.
- Multi-EVM bridge:
 - Working on the federated architecture for the bridge.
- Substrate bridge to sovereign state:
 - Adapting the implementation of the Substrate bridge to the Kusama parachain to connect to a standalone Substrate-based network.
- Development of the SORA Kusama parachain:
 - Implementing XOR as the native currency on the parachain.
 - Enabling XOR transfers between the SORA mainnet and SORA Kusama parachain.
 - Changing the asset precision to 18 instead of 12 to be coherent with the asset precision on the mainnet.
 - Implemented the same governance bodies and mechanisms as on the mainnet: Council and Technical Committee.
- Maintenance and improvements of the codebase;
- Project management activities (daily meetings, planning, retrospectives);
- Quality Assurance and testing activities.

1.2 Mobile App

- Implemented and released version 3.7.0 - Night mode:
 - Night mode.
 - Support for Arabic, Hebrew, and Persian.
 - Loading time performance improvements.
 - Disables the X1 widget (native XOR on-ramp).
 - Removes the reminder banner for account backup.
 - Connect with Google improvements.
 - Various UI / UX improvements.
- Implemented 3.8.0 - Demeter Farming:
 - Display Demeter farms available on the network
 - Various fixes and improvements
- Project management activities (daily meetings, planning, retrospectives);
- Product Design activities;
- QA and testing activities.

2 Substrate (PSWAP) - 896 hrs

Polkaswap has received a substantial amount of ongoing improvements, including:

- OHASHI Substrate Bridge: Phase 2 - SORA to SORA Kusama parachain;
 - SORA Kusama Parachain is available on the bridge.
 - XOR token transfers between SORA Kusama Parachain and the SORA network are available.
- WalletConnect support for the ETH Bridge;
- Display liquidity sources for Swaps;
- Price alerts improvements;
 - Increased price alerts max limit from 5 to 10.
 - Improved alerts dialogue re-centring during add/remove alerts operations.
 - Improved alert item context menu.
 - Added price autofocus during new alert creation.
- Quality of life improvements such as:
 - Improved token address format;
 - Simplified HASHI Bridge account selection - added account names;
 - Improved tap states for iOS-based devices (iPhone, iPad);
 - Fixed 'MAX' button behaviour for HASHI Substrate bridge;
 - Improved Chinese language (with community help);
 - Improved Select node dialogue re-centring & fixed header styles;
 - Fixed the About page active state for the sidebar menu;
 - Added autofocus for editable/new nodes from the Select node dialogue;
 - Improved charts data visualisation;
 - Improved Polkaswap.io stability & performance without whitelist data loaded;
- In progress:
 - Native \$XOR Validator Staking implementation;
 - Asset owner page development;
 - Order book improvements;
 - Kensetsu UI;
- Product Design activities;
- Project management activities (daily meetings, planning, retrospectives);
- Quality Assurance and testing activities.

3 DevOps and Security - 532 hrs

The work done this month by DevOps covers the SORA network as well as its underlying infrastructure. Here are more details:

3.1 SORA Blockchain

- New alerting rules and dashboards for:
 - SORA network
 - Bridges
 - main accounts
- Improved CI/CD pipeline.
- Prepared the SORA stage2 environment for longevity and load tests.
- SAST implemented.
- Security consolidation tool implemented - DefectDojo.
- Slither reports added to DefectDojo.
- Test environment refactored.
- New self-hosted subquery prod environment.
- A new environment for Substrate <> Substrate bridge.
- Improved Subsquid CD.
- In progress:
 - 50% Alphanet parachain dev environment

3.2 Parachain

- Improved CI/CD pipeline.
- SAST implemented.
- New version has been released and deployed.

3.3 Polkaswap

- Improved CI/CD pipeline;
 - New alerts.
 - New automation scripts.
- New CI/CD for a common library.
- Working on fault tolerance.

3.4 Mobile Clients

- Updated CI/CD pipeline.
 - New autotests.
 - Library improved.
- In progress:
 - 90% Swift SAST implementation.

3.5 SORA Card

- A new version has been released.
- SAST implemented.
- Working on Infrastructure hardening.

4 Education – 957 hr

Educational operations this month included:

4.1 SORA

- Ecosystem Update.
- Documenting business description and technical implementation for the initiatives (Substrate bridge, Order book).
- Ongoing wiki Improvements.
- Daily social media posts (covering key features, testnet/mainnet releases, highlighting USPs, and entertainment).
- SORA Kusama parachain release XOR integration and governance enhancements communications.
- SORA Blockchain release ‘Orderbook and marketplaces’ communications.
- SORA Wallet release: ‘Night mode + new languages’ communications.
- Content: SORA network tutorial for Solomon Islands POC.
- Content: One-pager for the Solomon Islands.
- Partnership: Litentry campaign (AMA and educational quiz).
- Articles:
 - The SORA Network Hosts the First Substrate/Polkadot-Based CBDC in Collaboration with the Central Bank of Solomon Islands.
 - Advanced XOR staking guide.
- Relationship management with parachain teams to open HRMP channels;
- Internal education and communication about the vision and roadmap for SORA;
- Continuous maintenance and documentation of the implementation and vision of SORA in the wiki;
- SORA evangelisation at industry events and conferences.

4.2 Polkaswap

- Ecosystem Update.
- Daily social media posts (covering key features, testnet/mainnet releases, highlighting USPs, and entertainment).
- Polkaswap ‘HASHI Substrate bridge,’ communications.
- Polkaswap ‘Order book test net’ communications.
- SORA Kusama bridge campaign set up and promotion
- Attending high-impact in-person events and business to government (B2G) expenses.

5 Total Hours – 8,056 hr

Additionally, invoice 205048, attached, pertains to cloud server costs for November 2023.

All SORA Ecosystem Memo payments provide collateral to the Token Bonding Curve.

Your ongoing support is greatly appreciated, and we look forward to continuing to serve you.

Sincerely,

SORAMITSU Helvetia AG

Supporting concept updates are presented in the SORA Ecosystem Updates published on [November 19](#), and Polkaswap updates on [November 19](#), respectively.

SORAMITSU Helvetia AG
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Invoice

Invoice for SORA.org	Payable to SORAMITSU Helvetia AG	Issue Date 10 December 2023	Invoice Number 205048
	Project Cloud Service Provider Cost for November 2023	Due Date 17 December 2023	

Description	Amount (USD)
Cloud Service Provider Cost for November 2023	11,160.00

Subtotal	\$11,160.00
Tax	0,00

Total Amount Due **USD \$11,160.00**

** Payment can be made in equivalent TBCD, at the market rate.*

Wallet Address (TBCD): **cnWLEqhHw4NeKxzUF5JxQUHEVPpqydJuxX4tZum5GAMSSX84G**

Thank you very much for your business. We are looking forward to serving you again.

SORAMITSU Helvetia AG
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Switzerland

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Invoice

Invoice for SORA.org	Payable to SORAMITSU Helvetia AG	Issue Date 10 December 2023	Invoice Number 205049
	Project Development Cost for November 2023	Due Date 17 December 2023	

Description	Quantity (Work-Hours)	Discounted Unit Price (USD)	Amount (USD)
SORA (Backend, Mobile Apps)	5,671	295.00	1,672,945.00
Polkaswap (Backend, Frontend)	896	295.00	264,320.00
DevOps and Security Review	532	295.00	156,940.00
Education	957	295.00	282,315.00
Subtotal	8,056.00	295.00	\$2,376,520.00

	Subtotal	\$2,376,520.00
	Tax	\$0.00

Amount Due

USD \$2,376,520.00

Grand Total Due (Invoice 205048 & 205049)

USD \$2,387,680.00

** Payment can be made in equivalent TBCD, at the market rate.*

Wallet Address (TBCD): **cnWLEqhHw4NeKxzUF5JxQUHEVPpqydJuxX4tZum5GAMSSX84G**

Thank you very much for your business. We are looking forward to serving you again.



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